

**Supporting Statement for
Paperwork Reduction Act Submissions**

30 C.F.R. § 57.22204, Main Fan Operation and Inspection (applies to underground metal and nonmetal mines which have been categorized as "gassy")

A. Justification

1. Explain the circumstances that make the collection of information necessary. Identify any legal or administrative requirements that necessitate the collection. Attach a copy of the appropriate section of each statute and regulation mandating or authorizing the collection of information.

Under Section 103 (a) of the Federal Mine Safety and Health Act of 1977 (Mine Act), authorized representatives of the Secretary of Labor (Secretary) or the Secretary of Health, Education, and Welfare shall make frequent inspections and investigations in coal or other mines each year for the purpose of (1) obtaining, utilizing, and disseminating information relating to health and safety conditions, the causes of accidents, and the causes of diseases and physical impairments originating in such mines, (2) gathering information with respect to mandatory health or safety standards, (3) determining whether an imminent danger exists, and (4) determining whether there is compliance with the mandatory health or safety standards or with any citation, order, or decision issued under this title or other requirements of the Mine Act. In carrying out the requirements of this subsection, no advance notice of an inspection shall be provided to any person, except that in carrying out the requirements of clauses (1) and (2) of this subsection, the Secretary of Health, Education, and Welfare may give advance notice of inspections. In carrying out the requirements of clauses (3) and (4) of this subsection, the Secretary shall make inspections of each underground coal or other mine in its entirety at least four times a year, and of each surface coal or other mine in its entirety at least two times a year. The Secretary shall develop guidelines for additional inspections of mines based on criteria including, but not limited to, the hazards found in mines subject to the Mine Act, and his experience under the Mine Act and other health and safety laws. For the purpose of making any inspection or investigation under the Mine Act, the Secretary, or the Secretary of Health, Education, and Welfare, with respect to fulfilling his responsibilities under the Mine Act, or any authorized representative of the Secretary or the Secretary of Health, Education, and Welfare, shall have a right of entry to, upon, or through any coal or other mine.

Title 30, C.F.R. § 57.22204, which is applicable only to specific metal and nonmetal underground mines that are categorized as gassy, requires main fans to have pressure-recording systems. Main fans are to be inspected daily while operating if

persons are underground, and certification of the inspection is to be made by signature and date. Certifications and pressure recordings are to be kept for one year and made available to authorized representatives of the Secretary. Potentially gassy (explosive) conditions underground are largely controlled by the main fans. When accumulations of explosive gases such as methane are not swept from the mine by the main fans, they may reasonably be expected to contact an ignition source. The results are usually disastrous and multiple fatalities may be expected to occur. The main fan requirements of this standard are significantly more stringent than those imposed on nongassy mines.

2. Indicate how, by whom, and for what purpose the information is to be used. Except for a new collection, indicate the actual use the agency has made of the information received from the current collection.

Information collected through the pressure recordings is used by the mine operator and the Mine Safety and Health Administration (MSHA) for maintaining a constant vigil on mine ventilation, and to ensure that unsafe conditions are identified early and corrected. Technical consultants may occasionally review the information when solving problems.

3. Describe whether, and to what extent, the collection of information involves the use of automated, electronic, mechanical, or other technological collection techniques or other forms of information technology, e.g., permitting electronic submission of responses, and the basis for the decision for adopting this means of collection. Also describe any consideration of using information technology to reduce burden.

No improved information technology has been identified that would reduce the burden, however in order to comply with the Government Paperwork Elimination Act mine operators may retain the records of certifications and pressure recordings in whatever method they chose, which may include utilizing computer technology.

4. Describe efforts to identify duplication. Show specifically why any similar information already available cannot be used or modified for use for the purposes described in Item 2 above.

Fan pressure recordings are required to be kept on file at the mine. There are no duplicate records that could be used. The ventilation at each mine is unique to that mine, therefore, there is no similar data that could be used.

5. If the collection of information impacts small businesses or other small entities (Item 5 of OMB Form 83-I), describe any methods used to minimize burden.

This information collection does not have a significant impact on small businesses or other small entities. However, MSHA has made available on our web-site various

sources of information such as “Technical Assistance,” “Best Practices,” and an “Accident Prevention Site”. These provide tips and general information on number of various topics.

6. Describe the consequence to Federal program or policy activities if the collection is not conducted or is conducted less frequently, as well as any technical or legal obstacles to reducing burden.

MSHA has determined that maintaining proper ventilation is critical to providing the miners with a safe atmosphere in which to work. To require mine operators to inspect fans on a less than daily basis would increase the risk that harmful gases may accumulate and cause an explosion hazard.

7. Explain any special circumstances that would cause an information collection to be conducted in a manner:

- ! requiring respondents to report information to the agency more often than quarterly;
- ! requiring respondents to prepare a written response to a collection of information in fewer than 30 days after receipt of it;
- ! requiring respondents to submit more than an original and two copies of any document;
- ! requiring respondents to retain records, other than health, medical, government contract, grant-in-aid, or tax records for more than three years;
- ! in connection with a statistical survey, that is not designed to produce valid and reliable results that can be generalized to the universe of study;
- ! requiring the use of a statistical data classification that has not been reviewed and approved by OMB;
- ! that includes a pledge of confidentiality that is not supported by authority established in statute or regulation, that is not supported by disclosure and data security policies that are consistent with the pledge, or which unnecessarily impedes sharing of data with other agencies for compatible confidential use; or
- ! requiring respondents to submit proprietary trade secret, or other confidential information unless the agency can demonstrate that it has instituted procedures to protect the information's confidentiality to the extent permitted by law.

Although there is no specific requirement that mine operators maintain the information collection described above for more than three years, 30 CFR 57.22204 requires that a mine operator make daily inspections, record and certify the results for the entire time the mine is in operation. The certified records must be maintained at the mine for a

period of one year. The requirements are consistent with the general information collection guidelines in 5 CFR § 1320.5.

8. If applicable, provide a copy and identify the data and page number of publication in the Federal Register of the agency's notice, required by 5 CFR 1320.8(d), soliciting comments on the information collection prior to submission to OMB. Summarize public comments received in response to that notice and describe actions taken by the agency in response to these comments. Specifically address comments received on cost and hour burden.

Describe efforts to consult with persons outside the agency to obtain their views on the availability of data, frequency of collection, the clarity of instructions and recordkeeping, disclosure, or reporting format (if any), and on the data elements to be recorded, disclosed, or reported.

Consultation with representatives of those from whom information is to be obtained or those who must compile records should occur at least once every 3 years -- even if the collection of information activity is the same as in prior periods. There may be circumstances that may preclude consultation in a specific situation. These circumstances should be explained.

In accordance with 5 CFR 1320.8 (d), MSHA will publish the proposed information collection requirements in the Federal Register, notifying the public that these information collection requirements are being reviewed in accordance with the Paperwork Reduction Act of 1995, and giving interested persons 60 days to submit comments.

9. Explain any decision to provide any payment or gift to respondents, other than remuneration of contractors or grantees.

MSHA has made no decision to provide any payment or gifts to the respondents.

10. Describe any assurance of confidentiality provided to respondents and the basis for the assurance in statute, regulation, or agency policy.

There is no personal information requiring confidentiality.

11. Provide additional justification for any questions of a sensitive nature, such as sexual behavior and attitudes, religious beliefs, and other matters that are commonly considered private. This justification should include the reasons why the agency considers the questions necessary, the specific uses to be made of the information, the explanation to be given to persons from whom the information is requested, and any steps to be taken to obtain their consent.

There are no questions of a sensitive nature.

12. Provide estimates of the hour burden of the collection of information. The statement should:

! Indicate the number of respondents, frequency of response, annual hour burden, and

an explanation of how the burden was estimated. Unless directed to do so, agencies should not conduct special surveys to obtain information on which to base hour burden estimates. Consultation with a sample (fewer than 10) of potential respondents is desirable. If the hour burden on respondents is expected to vary widely because of differences in activity, size, or complexity, show the range of estimated hour burden, and explain the reasons for the variance. Generally, estimates should not include burden hours for customary and usual business practices.

- ! If this request for approval covers more than one form, provide separate hour burden estimates for each form and aggregate the hour burdens in Item 13 of OMB Form 83-I.
- ! Provide estimates of annualized cost to respondents for the hour burdens for collections of information, identifying and using appropriate wage rate categories. The cost of contracting out or paying outside parties for information collection activities should not be included here. Instead, this cost should be included in Item 13.

MSHA estimates that approximately 8 mines will be affected by this standard. MSHA's records show that there is an average of 2 main fans per mine, and that a mine works approximately 330 days per year. It is estimated that the examination and changing of the pressure recording system (gauge charts) would require an average of one-half hour per main fan. It has been MSHA's experience that these charts are examined and changed on a daily basis by an hourly employee of the mine operator. The estimated average hourly salary of an hourly employee is \$21.76 (based on U.S. Metal and Nonmetal Mine Salaries, Wages, & Benefits - 2004 Survey Results).

Burden hours:

$$8 \text{ mines} \times 2 \text{ fans} \times 330 \text{ days} \times 0.5 \text{ hour} = 2,640 \text{ hours}$$

Burden cost:

$$2,640 \text{ hours} \times \$21.76/\text{hr.} = \$57,024$$

13. Provide an estimate of the total annual cost burden to respondents or record keepers resulting from the collection of information. (Do not include the cost of any hour burden shown in Items 12 and 14.)

- ! The cost estimate should be split into two components: (a) a total capital and start-up cost component (annualized over its expected useful life); and (b) a total operation and maintenance and purchase of services component. The estimates should take into account costs associated with generating, maintaining, and disclosing or providing the information. Include descriptions of methods used to estimate major cost factors including system and technology acquisition, expected useful life of capital

equipment, the discount rate(s), and the time period over which costs will be incurred. Capital and start-up costs include, among other items, preparations for collecting information such as purchasing computers and software; monitoring, sampling, drilling and testing equipment; and record storage facilities.

- ! If cost estimates are expected to vary widely, agencies should present ranges of cost burdens and explain the reasons for the variance. The cost of purchasing or contracting out information collection services should be a part of this cost burden estimate. In developing cost burden estimates, agencies may consult with a sample of respondents (fewer than 10), utilize the 60-day pre-OMB submission public comment process and use existing economic or regulatory impact analysis associated with the rulemaking containing the information collection, as appropriate.
- ! Generally, estimates should not include purchases of equipment or services, or portions thereof, made: (1) prior to October 1, 1995, (2) to achieve regulatory compliance with requirements not associated with the information collection, (3) for reasons other than to provide information or keep records for the government, or (4) as part of customary and usual business or private practices.

Based on figures received from mine operators during various inspections, MSHA estimates the average cost of a pressure recording system to be \$700 per system. The useful life of the system is estimated to be 10 years, and the annualized cost to be amortized at 10% per year over the expected life of the system. Annual maintenance costs are estimated to be approximately 10% of the average cost of the system.

Annual maintenance cost:

$8 \text{ mines} \times 2 \text{ recording systems (1 system per fan)} \times \$700 \text{ per system} \times 0.10 \text{ (10\%)} = \$1,120$

14. Provide estimates of annualized cost to the Federal government. Also, provide a description of the method used to estimate cost, which should include quantification of hours, operational expenses (such as equipment, overhead, printing, and support staff), and any other expense that would not have been incurred without this collection of information. Agencies also may aggregate cost estimates from Items 12, 13, and 14 in a single table.

No Federal inspection costs have been associated specifically for this information collection. The examination of these records is just one aspect of the MSHA's inspection. Complete inspections are required under Section 103(a) of the Mine Act and are required 4 times a year for underground mines and twice a year for surface operations.

15. Explain the reasons for any program changes or adjustments reporting in Items 13 or 14 of the OMB Form 83-I.

Respondents: The number of Respondents has changed to 8.

Responses: There has been an increase of 1,815 Responses (3,465 to 5,280). The time to change the pressure record system and number of working days throughout a year remains unchanged. The increase is due to an increase in the number of mines and the average number of main fans per mine. Therefore the number of responses has increased accordingly.

Hours: There has been an increase of 907 burden hours (1,733 to 2,640). Again, this is due to the increase in the number of mines and the average number of main fans.

Costs: The Cost has changed to \$1,120 from to \$735

16. For collections of information whose results will be published, outline plans for tabulation, and publication. Address any complex analytical techniques that will be used. Provide the time schedule for the entire project, including beginning and ending dates of the collection of information, completion of report, publication dates, and other actions.

The results from this information collection will not be published.

17. If seeking approval to not display the expiration date for OMB approval of the information collection, explain the reasons that display would be inappropriate.

There are no forms associated with this collection.

18. Explain each exception to the certification statement identified in Item 19, "Certification for Paperwork Reduction Act Submission," of OMB 83-I.

There are no certification exceptions identified with this information collection.

B. Collection of Information Employing Statistical Methods

The agency should be prepared to justify its decision not to use statistical methods in any case where such methods might reduce burden or improve accuracy of results. When Item 17 on the Form OMB 83-I is checked "Yes," the following documentation should be included in the Supporting Statement to the extent that it applies to the methods proposed:

1. Describe (including a numerical estimate) the potential respondent universe and any sampling or other respondent selection methods to be used. Data on the number of entities (e.g., establishments, State and local government units, households, or persons) in the universe covered by the collection and in the corresponding sample are to be provided in tabular form for the universe as a whole and for each of the strata in the proposed sample. Indicate expected response rates for the collection as a whole. If the collection had been conducted previously, include the actual response rate achieved during the last collection.

The collection of this information does not employ statistical methods.

2. Describe the procedures for the collection of information including:

- ! Statistical methodology for stratification and sample selection,
- ! Estimation procedure,
- ! Degree of accuracy needed for the purpose described in the justification,
- ! Unusual problems requiring specialized sampling procedures, and
- ! Any use of periodic (less frequently than annual) data collection cycles to reduce burden.

3. Describe methods to maximize response rates and to deal with issues of non-response. The accuracy and reliability of information collected must be shown to be adequate for intended uses. For collections based on sampling, a special justification must be provided for any collection that will not yield "reliable" data that can be generalized to the universe studied.

4. Describe any tests of procedures or methods to be undertaken. Testing is encouraged as an effective means of refining collections of information to minimize burden and improve utility. Tests must be approved if they call for answers to identical questions from 10 or more respondents. A proposed test or set of tests may be submitted for approval separately or in combination with the main collection of information.

5. Provide the name and telephone number of individuals consulted on statistical aspects of the design and the name of the agency unit, contractor(s), grantee(s), or other person(s) who will actually collect and/or analyze the information for the agency.